

2661

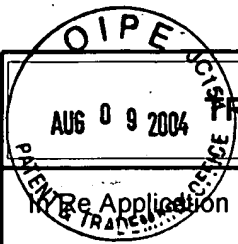
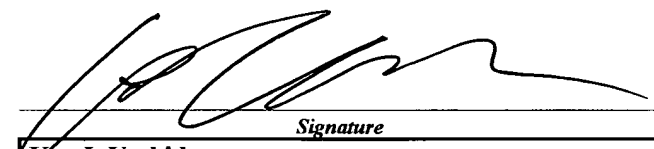
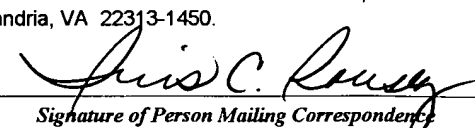
 <b>TRANSMITTAL OF FORMAL DRAWINGS</b>				Docket No. <b>HITACHI-0009</b>	
Re Application Of: <b>ISHIDA, et al.</b>					
Application No.	Filing Date	Confirmation No.	Examiner	Customer No.	Group Art Unit
09/620,348	July 20, 2000	3792	SAM, Phirin	21,302	2661
Invention: <b>BASE STATION CONTROLLER AND MOBILE STATION</b>					
Address to: <b>Commissioner for Patents</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>				<div style="font-size: 1.5em; font-weight: bold;">RECEIVED</div> <div style="font-size: 1.2em;">AUG 1 2 2004</div> <div style="font-size: 1.2em;">Technology Center 2600</div>	
Transmitted herewith are:  <div style="margin-left: 40px;">13 sheets of formal drawing(s) for this application.</div>  <input checked="" type="checkbox"/> Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c).					
<div style="text-align: center;">   <i>Signature</i> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <b>Ken I. Yoshida</b>  <b>Reg. No.: 37,009</b>  <b>KNOBLE YOSHIDA &amp; DUNLEAVY LLC</b>  <b>Eight Penn Center, Suite 1350</b>  <b>1628 John F. Kennedy Blvd.</b>  <b>Philadelphia, PA 19103</b>  <b>215-599-0600</b> </div>			Dated: <b>August 5, 2004</b>		
			<div style="border: 1px solid black; padding: 5px;"> I certify that this document and attached formal drawings are being deposited on <u>8/5/04</u> with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. </div> <div style="text-align: center; margin-top: 10px;">   <i>Signature of Person Mailing Correspondence</i> </div> <div style="text-align: center; margin-top: 10px;"> <b>Iris C. Rousey</b>  <i>Typed or Printed Name of Person Mailing Correspondence</i> </div>		

FIG. 1

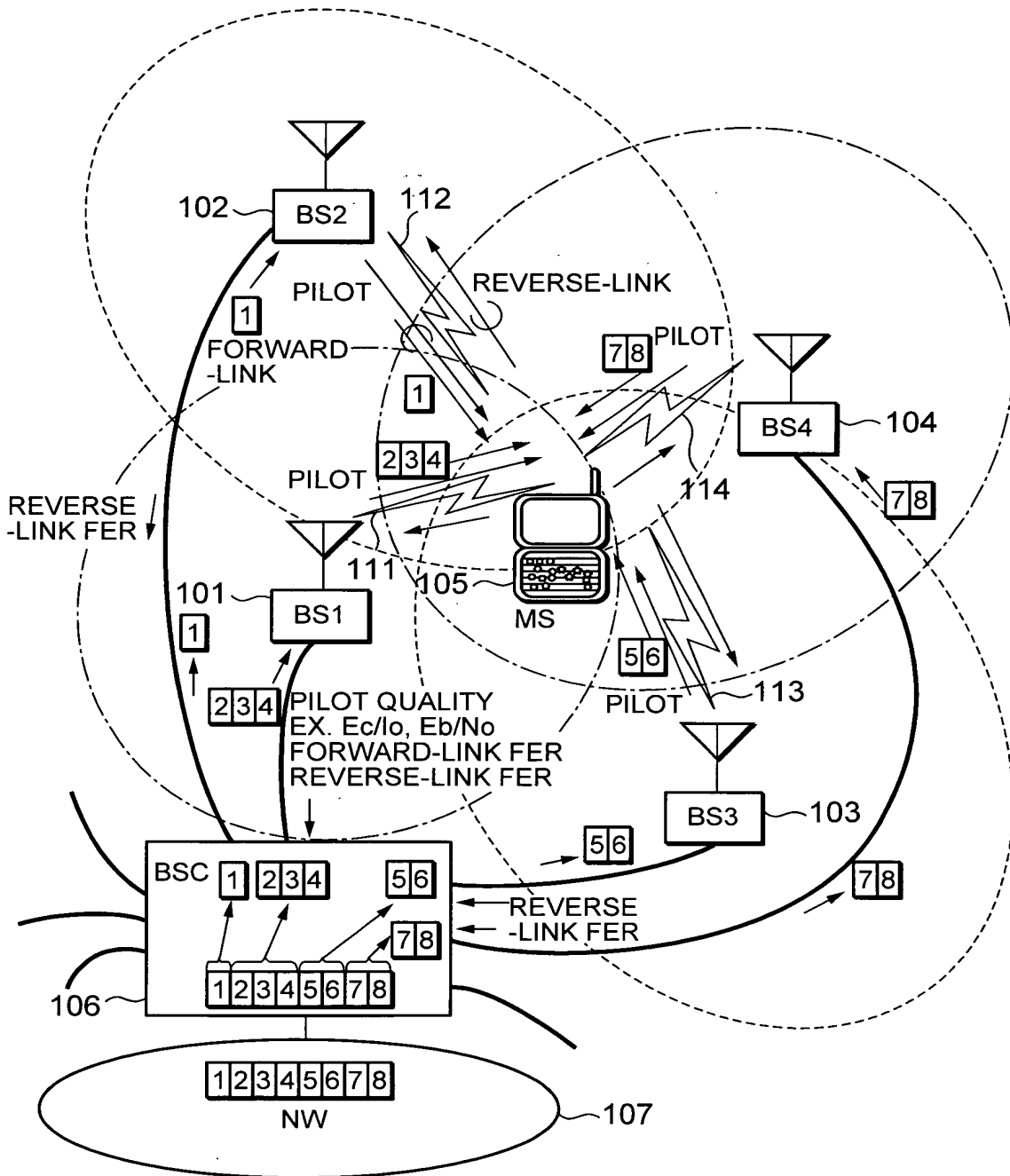


FIG. 2

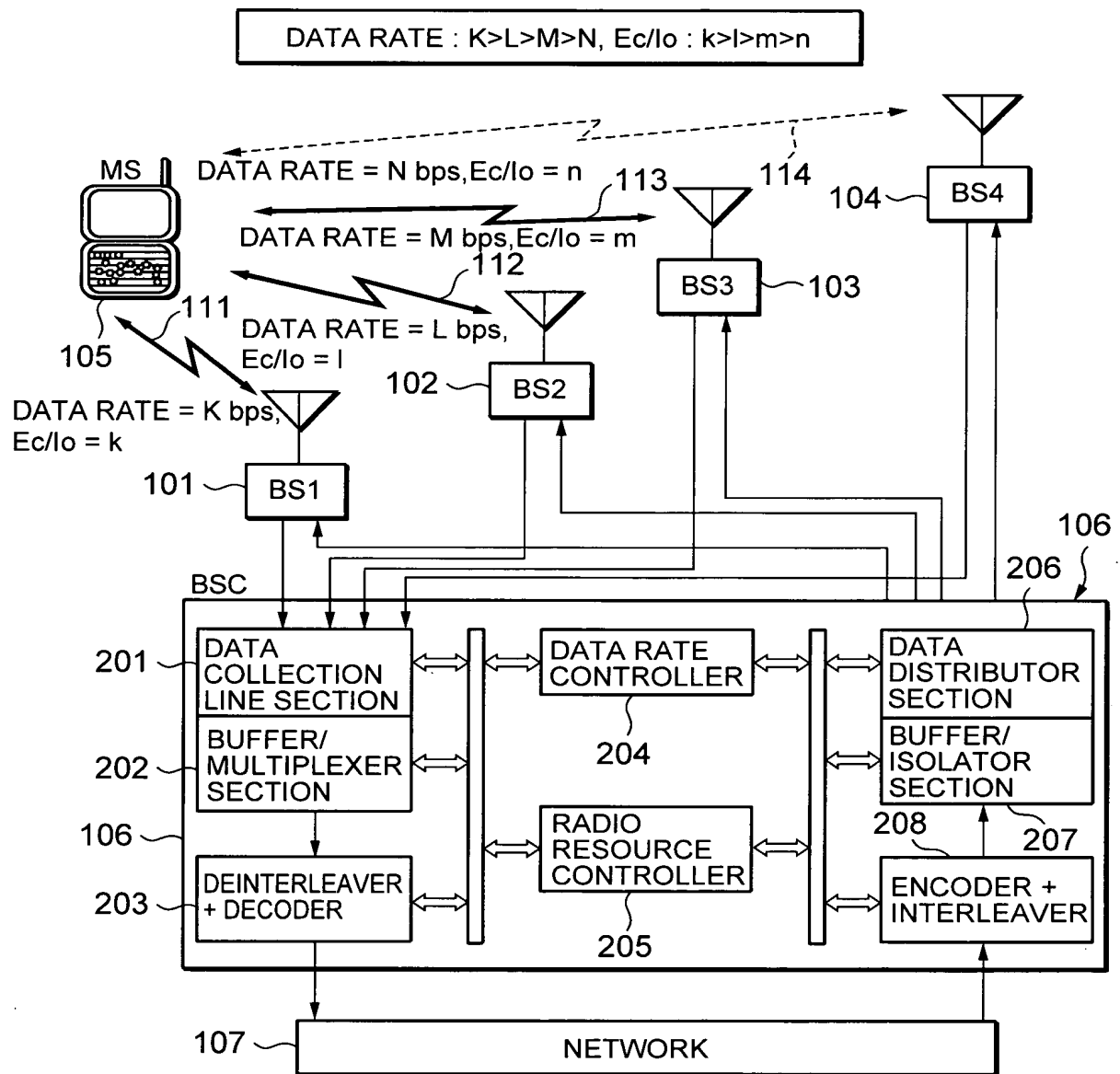
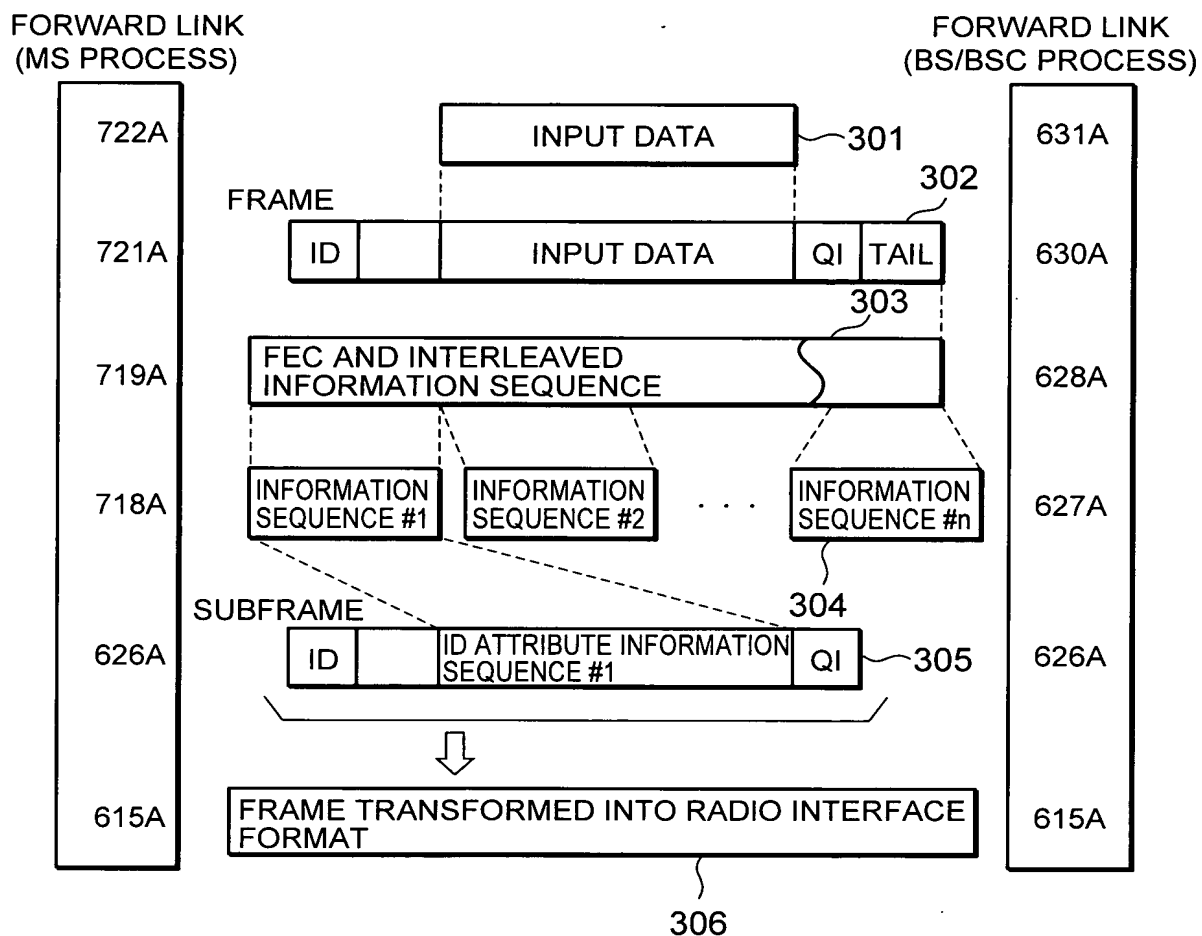


FIG. 3



NOTE :

- Q1 = QUALITY INFORMATION
- FEC = FORWARD ERROR CORRECTION
- TAIL = APPENDED BIT FOR FEC
- ID = IDENTIFIER

FIG. 4

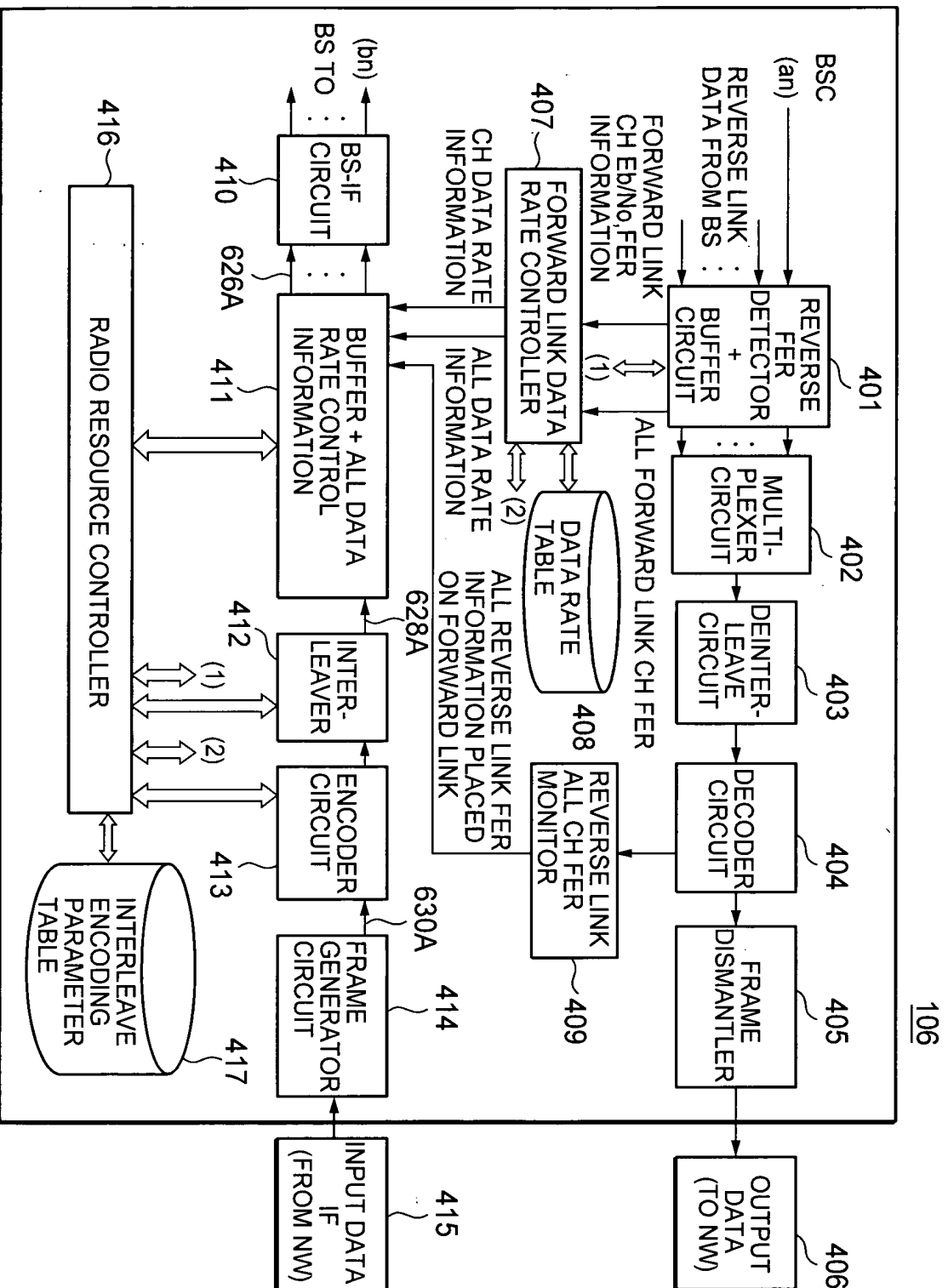


FIG. 5

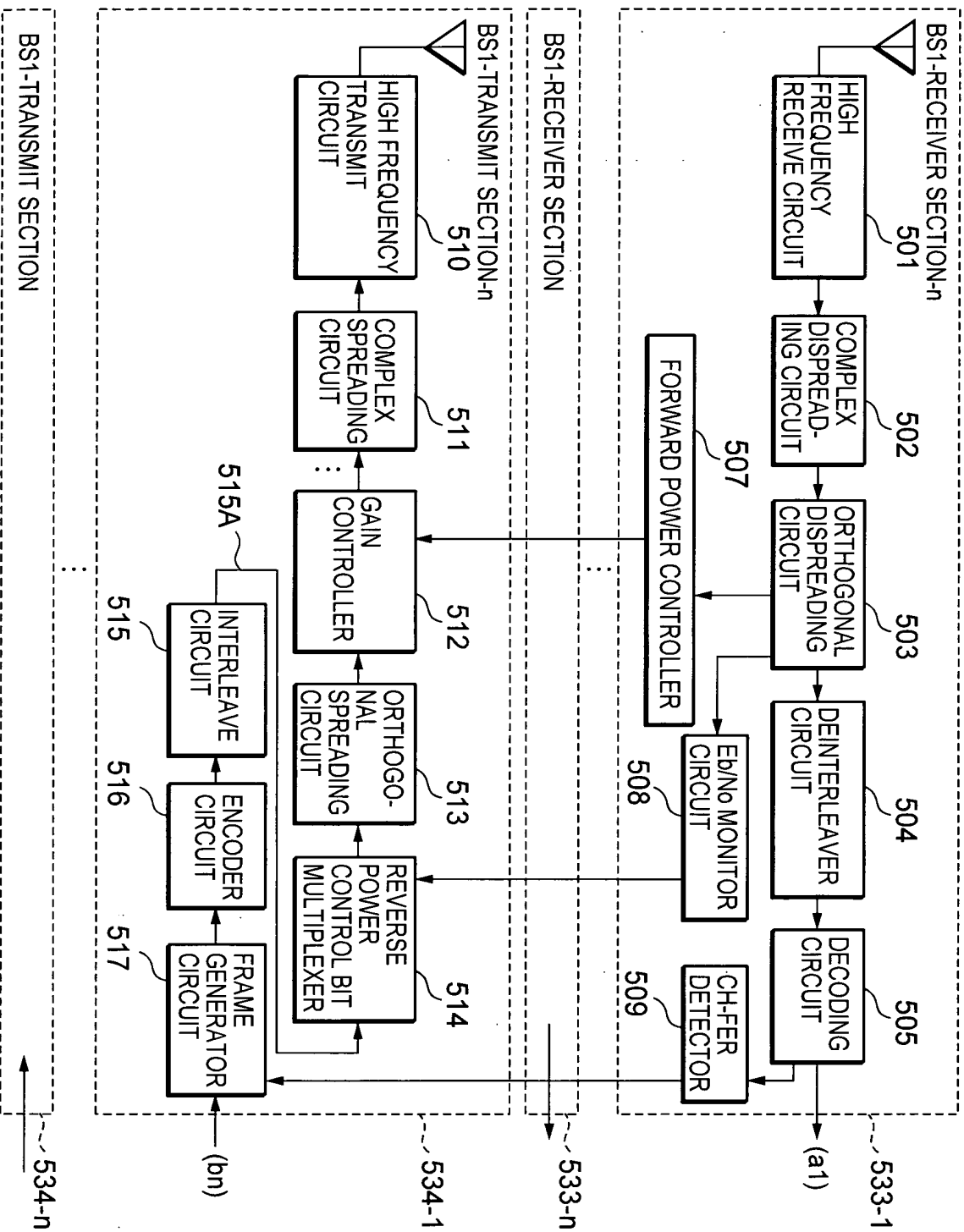
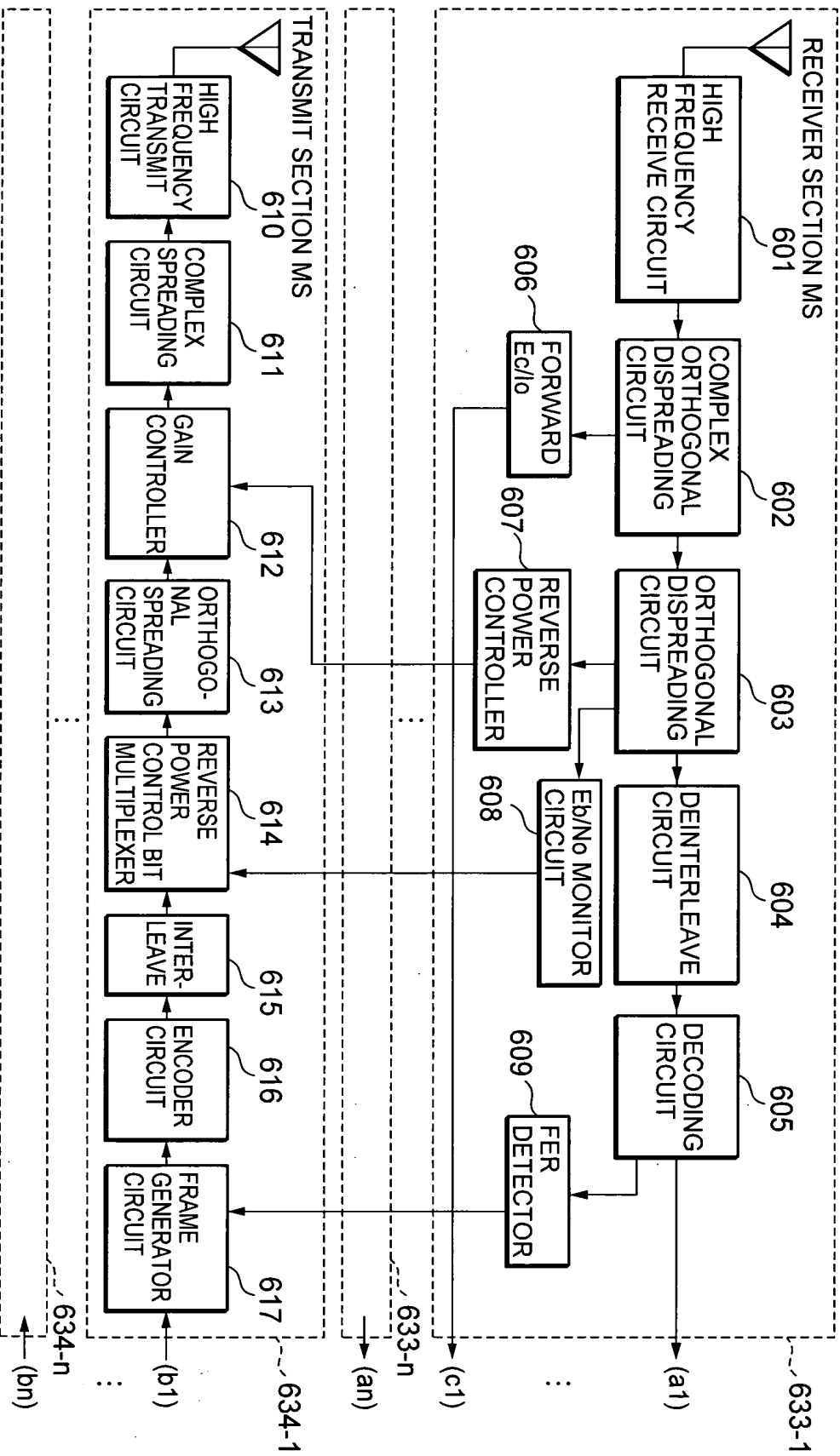


FIG. 6



# FIG. 7

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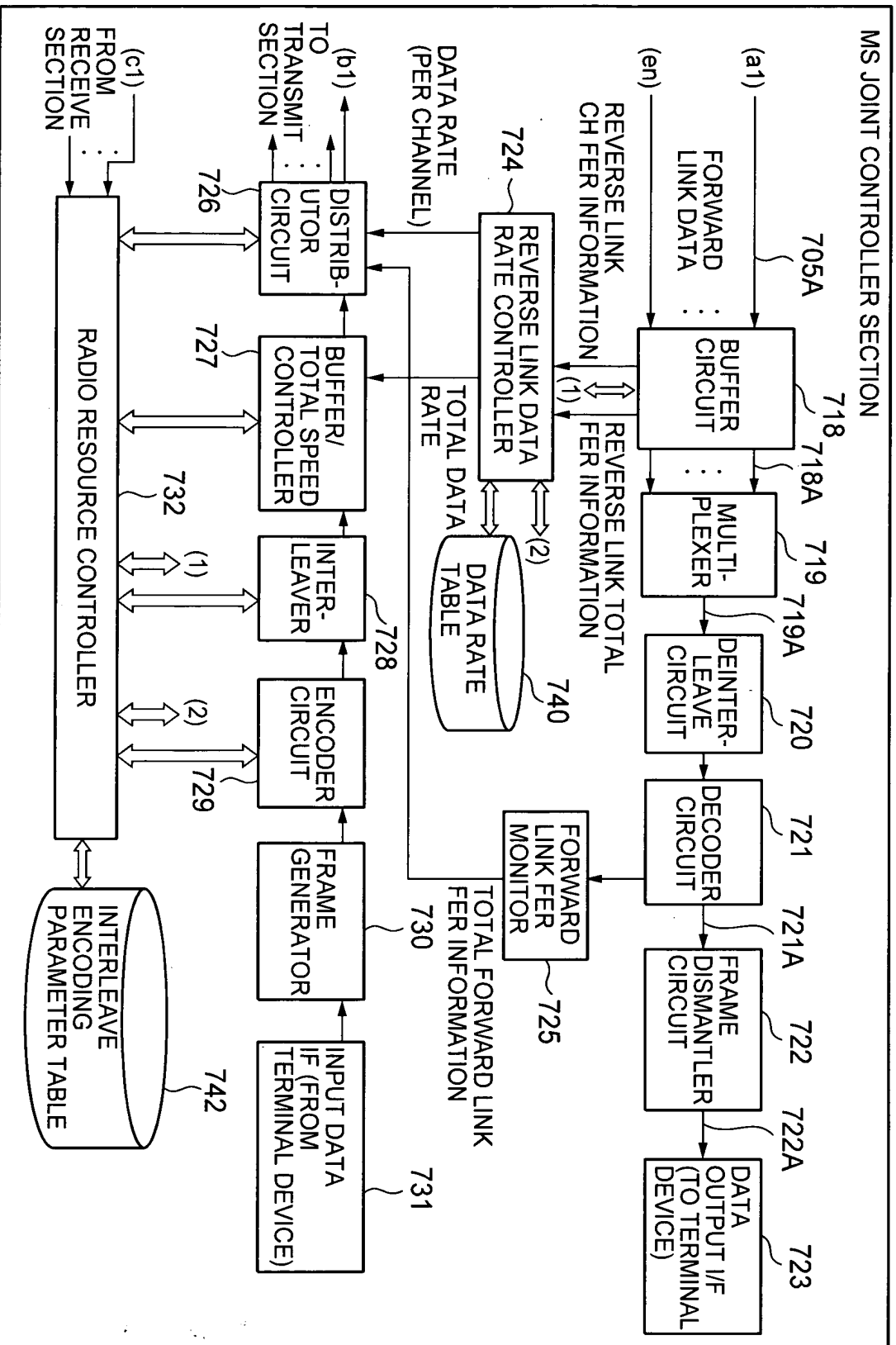






FIG. 8

(A) DATA RATE PARAMETERS PER LINE

LOWEST $E_c/I_0$	$s$	$i$	....	$v$	$w$
LOWEST $E_b/N_0$	$k$	$l$	....	$m$	$n$
MAXIMUM ALLOWABLE DATA RATE PER CH	$K$	$L$	....	$M$	$N$
FER PER LINE	USE FOR RATING THE QUALITY OF EACH LINE FOR INSTANCE, LOWER THE DATA RATE IF THE FER DROPS BELOW THE STANDARD VALUE.				

(B) TOTAL DATA RATE PARAMETERS AFTER MULTIPLEXING

ESTIMATED DATA RATE TOTAL SUM PER LINE	$a$	$b$		$c$	$d$
INTERFERENCE MARGIN COEFFICIENT	A SPECIFIED LINE SHALL BE USED, WHEN THE USE OF THE SAME FREQUENCY OR TIME SLOT IS ALLOWED BETWEEN CIRCUITS, THIS DEPENDS ON THE LINE RESERVE METHOD AND THE EXTENT OF THE INTERFERENCE MARGIN OF THE SYSTEM.				
MAXIMUM ALLOWABLE DATA RATE (AFTER MULTIPLEXING)	$w$	$x$	....	$y$	$z$
FER AFTER MULTIPLEXING	USE FOR RATING THE QUALITY OF EACH LINE AFTER MULTIPLEXING. FOR INSTANCE, LOWER THE DATA RATE IF THE FER DROPS BELOW THE STANDARD VALUE.				

(C) INTERLEAVE SIZE PARAMETERS OF MULTIPLEXED SIGNAL

NUMBER OF CONNECTED LINES	$a$	$b$		$c$	$d$
DATA RATE RATIO BETWEEN CIRCUITS	$p$	$q$		$r$	$s$
INTERLEAVE SIZE (NUMBER OF FRAMES FOR INTERLEAVE)	$s$	$t$	....	$v$	$w$

Figure 1 illustrates the Channel Quality Indicator (CQI) and resource allocation. The top part shows a graph of CQI (Eb/No, FER) for three channels (CH1, CH2, CH3) over time (t1 to t5). CH1 is the highest, CH2 is the lowest, and CH3 is in the middle. The bottom part shows a resource allocation table for three channels (CH1, CH2, CH3) across five time slots (t1 to t5).

Channel	t1	t2	t3	t4	t5
CH1	1, 2, 3, 4	10, 11, 12, 13	18, 19, 20, 21	25, 26, 27, 28	
CH2	5, 6, 7, 8	14, 15, 16	25, 26	33	
CH3	9	17	22, 23, 24	29, 30, 31, 32	

FIG. 10

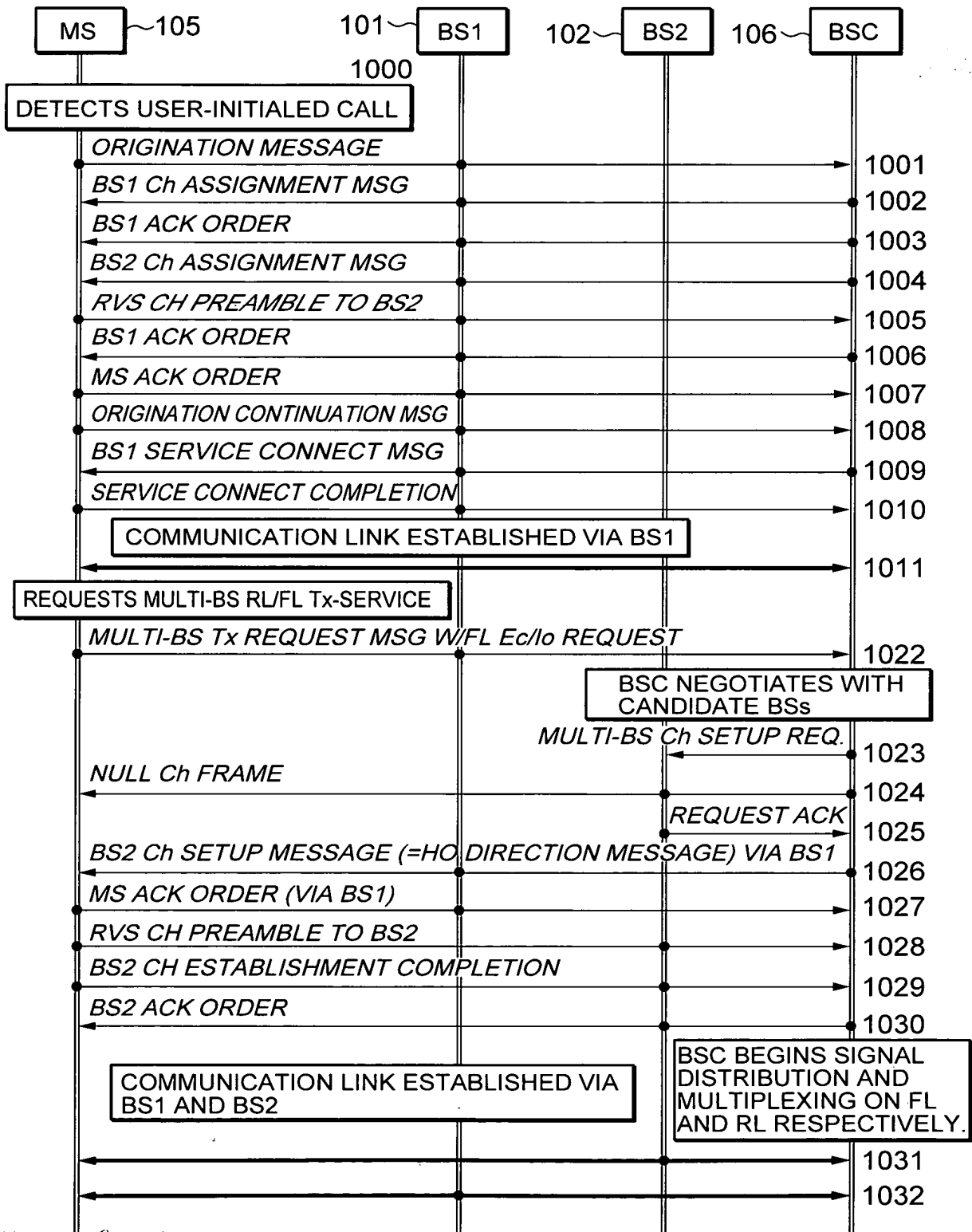




FIG. 11

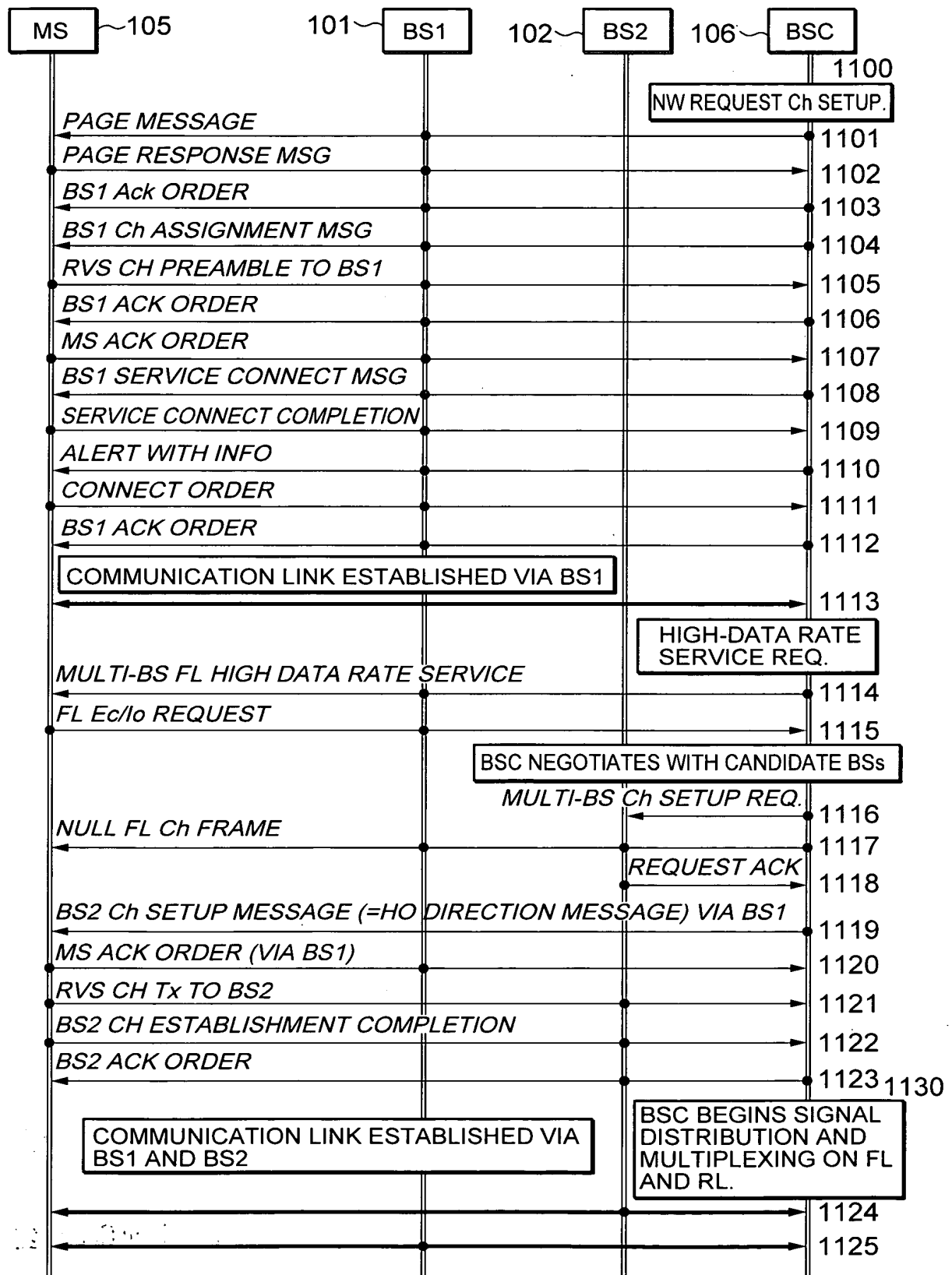


FIG. 12

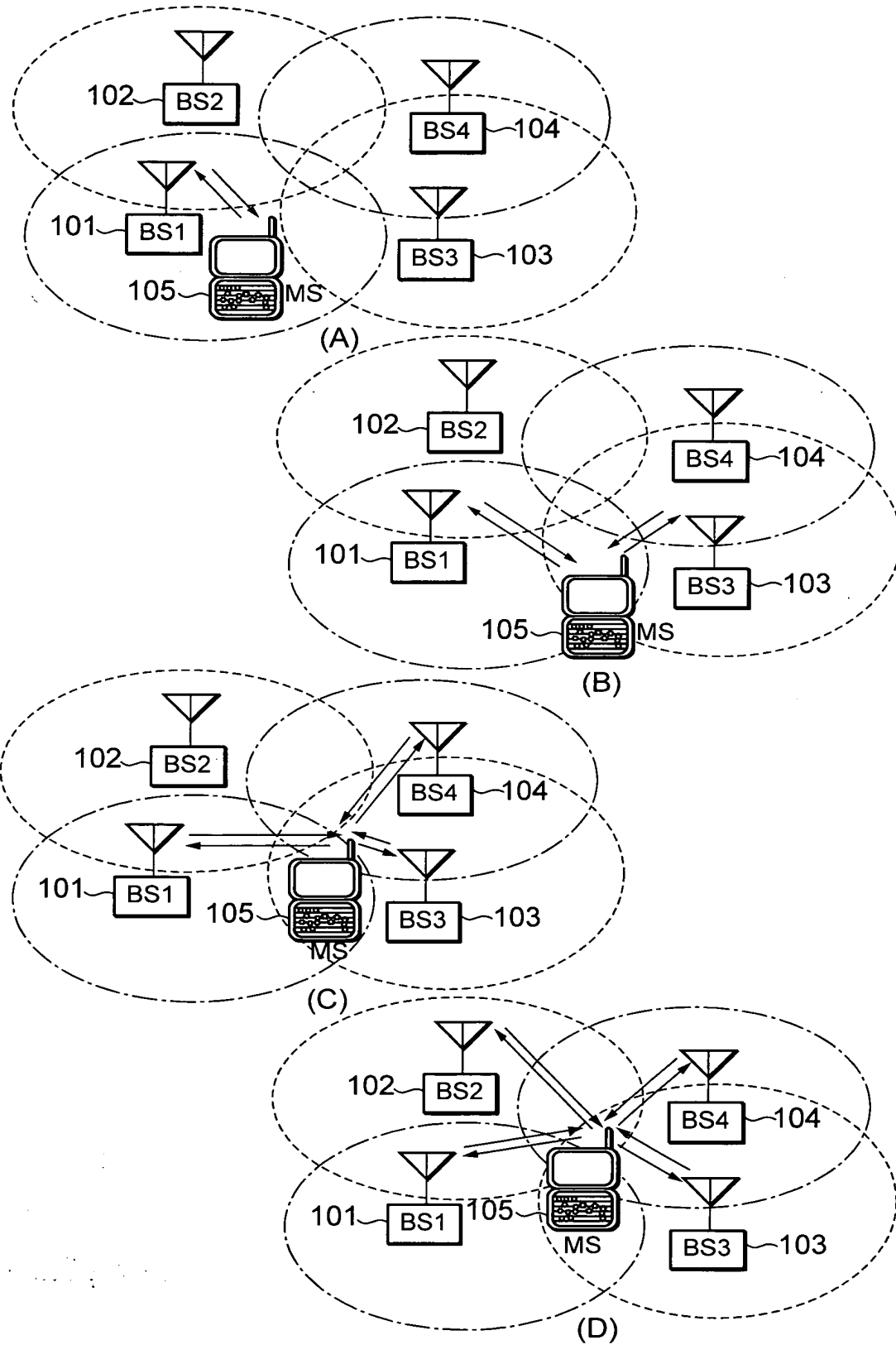




FIG. 13

